

## **AMENDMENTS TO THE SPECIFICATION:**

Page 1, please add the following new paragraphs before paragraph [0001]:

[0000.2] CROSS-REFERENCE TO RELATED APPLICATIONS

[0000.4] This application is a 35 USC 371 application of PCT/DE 03/02312  
filed on July 7, 2003

[0000.6] BACKGROUND OF THE INVENTION

Please replace paragraph [0001] with the following amended paragraph:

[0001] ~~Technical Field~~ **of the Invention**

Page 3, please replace paragraph [0008] with the following amended paragraph:

[0008] ~~Depiction of the Invention~~ **SUMMARY OF THE INVENTION**

Page 5, please replace paragraph [0013] with the following amended paragraph:

[0013] ~~Drawings~~ **BRIEF DESCRIPTION OF THE DRAWINGS**

Please replace paragraph [0014] with the following amended paragraph:

[0014] The present invention will be explained in greater detail below in conjunction with the drawings[.], **in which:**

Please replace paragraph [0017] with the following amended paragraph:

[0017] ~~Embodiment Variants~~ **DESCRIPTION OF THE PREFERRED EMBODIMENTS**

Page 7, please replace paragraph [0022] with the following amended paragraph:

[0022] The wall of the working chamber 2 is labeled with the reference numeral 11 and is comprised of the material of the first housing part 10.1 of the housing 10. The piston-shaped pressure boosting element 5 has a support disk 12 in the upper region of the working chamber

2. The support disk 12 supports a return spring element 13, whose end oriented away from the support disk 12 rests against a disk-shaped damping element 15. The damping element has a support surface 14 against which the return spring 13 rests. Along a support surface 17, the damping element 15 rests against the second housing part 10.2 of the housing 10. The damping element is contained in a stationary fashion inside the first housing part 10.1 and during assembly of the multipart housing 10, is inserted into the first housing part 10.1, in a recess 18 above the dividing seam of the housing division 16.

Please replace paragraph [0023] with the following amended paragraph:

[0023] The damping element 15 has an outer ring 19 and an inner ring 20. At the lower end of the outer ring 19 of the damping element 15, there is an annular surface that rests against the second housing part 10.2 at the above-mentioned support surface 17 of the damping element 15. The damping element 15 also has a delimiting surface 23, which delimits a damping chamber 22. The damping chamber 22 can also be delimited by a surface region 21 of the pressure boosting element 5, which surface region is embodied in the shape of a truncated cone, for example, or can also be flat. The truncated cone-shaped region 21, which constitutes a hydraulically effective surface 32, only becomes effective once fuel overflows from the working chamber 2 into the damping chamber 22. A damper throttle 24 is provided, which passes through the damping element 15, i.e. perforating its support surface 14. In the position of the pressure boosting element 5 according to the drawing, the inner ring 20 of the damping element 15 covers over an annular region 34 of the pressure boosting element 5; this annular region 34 adjoins the truncated cone-shaped circumferential surface region 21 and functions hydraulically in the same way as the truncated cone-shaped region 21. In the gap between the damping element ~~[[5]]~~ 15 and the circumference surface of the pressure boosting element and in the annular region 34, a pressure

seepage occurs, i.e. the same pressure prevails in the working chamber 2 and in the damping chamber 22. The gap leakage occurring, however, is slight in comparison to the volumetric flow of fuel that occurs via the cross-section of the damper throttle 24.

Page 11, please replace paragraph [0029] with the following amended paragraph:

[0029] When a stroke distance defined by the position of the control edge 25 on the circumference of the piston-shaped pressure boosting element 5 is exceeded, the control edge 25 travels out from the bore 28 of the damping element 15. The open surfaces 26 adjoining the control edge 25 and embodied on the circumference of the piston-shaped pressure boosting element 5 permit fuel to flow from the working chamber 2 of the pressure booster into the hydraulic chamber 22, whose volume continuously increases due to the movement of the piston-shaped pressure boosting element 5 in the direction of the arrow 29. As soon as the control edge 25 travels out from the bore 28 of the annularly embodied damping element 15, the damper throttle 24 is rendered ineffective by the uncovering of the open surfaces 26, and the fuel flows unhindered through the bore 28 and into the hydraulic chamber 22. As a result, in accordance with the inward movement 29 of the piston-shaped pressure boosting element 5 into the pressure-relieved differential pressure chamber 6, the working pressure prevails in the in the hydraulic chamber 22 and therefore acts on the entire end surface, including the surface 34 that was previously covered over by the inner ring 20 of the damping element 15. As a result, the pressure in the high-pressure chamber 33 increases up to the design pressure. The full pressure buildup inside the high-pressure chamber 33, however, only occurs after the fuel quantity required for preinjections has already flowed out into the discharge line 9 and to the fuel injector that is not shown in the drawing. After the control edge 25 has traveled out from the tightly toleranced bore 28 of the annular damping element 15, the design pressure of the pressure booster acts on the

piston-shaped pressure boosting element 5, which design pressure is predetermined by the dimensioning of the hydraulically effective surfaces 21 and 34 and by the dimensioning of the surface of the pressure boosting element 5 that is encompassed by the bore 28. The surface of the pressure boosting element 5 that is encompassed by the bore 28 is continuously subjected to the pressure prevailing in the working chamber 2. After the control edge 25 travels out from the bore 28, the pressure in the working chamber 2, which now also prevails in the hydraulic chamber 22, acts on the entire piston cross section (compare to diameter of guide section 30) of the pressure boosting element 5.

Page 13, please replace paragraph [0031] with the following amended paragraph:

[0031] Providing a damper throttle 24 on an annular insert element 15 that functions as a damping element and is already accommodated in a multipart housing 10 of a pressure booster 1 can obviate the need for installing additional components in the pressure booster 1. The annular insert element 15 includes an outer ring 19, which laterally encompasses the return spring 13 resting against the surface 14 of the annular insert 15 so that this return spring 13 is always held in its position against the annular insert 15. The other end of the return spring 13 rests against a disk surface 12 provided on the piston-shaped pressure boosting element 5. The recess 18 ~~on the damping element~~ in the housing part 10.1 constitutes the upper stroke stop of the pressure boosting element 5. A stroke stop for the pressure boosting element 5 of the pressure booster 1 can also be constituted by the contact that upper end of the pressure boosting element 5 makes with the first housing part 10.1.

Please replace paragraph [0033] with the following amended paragraph:

[0033] In the embodiment variant of the annular insert [[15]] 35 that functions as a damping element according to Fig. 2, this insert element includes an outer ring 19. In the embodiment variant of an annular insert 35 (damping element) shown in Fig. 2, the outer ring has been omitted. The annular insert 35 shown in Fig. 2 is essentially embodied in the form of a disk and is disposed inside a recess 18 in the upper first housing part 10.1 of the pressure booster 1. The return spring 13 acting on the pressure boosting element 5 rests against the support surface 14 of the annular damping element 35. In addition, a contact surface 36 centers the return spring 13 in the first housing part 10.1.

Page 14, please add the following new paragraph after paragraph [0034]:

[0035] The foregoing relates to a preferred exemplary embodiments of the invention, it being understood that other variants and embodiments thereof are possible within the spirit and scope of the invention, the latter being defined by the appended claims.

Please delete pages 15 and 16.